

Title (en)

BATTERY CELL, BATTERY USING THE BATTERY CELL, AND ELECTRONIC DEVICE

Title (de)

BATTERIEZELLE, BATTERIE MIT BATTERIEZELLE UND ELEKTRONISCHES GERÄT

Title (fr)

ÉLÉMENT DE BATTERIE, BATTERIE UTILISANT L'ÉLÉMENT DE BATTERIE ET DISPOSITIF ÉLECTRONIQUE

Publication

EP 3940856 A4 20220119 (EN)

Application

EP 20866914 A 20200520

Priority

CN 2020091384 W 20200520

Abstract (en)

[origin: EP3940856A1] A battery cell includes a first electrode plate, a second electrode plate, and an insulating adhesive. The first electrode plate includes a first current collector, a first coating, and a first active layer, the first coating is disposed between the first current collector and the first active layer and comprises a thermal expansion material. The first electrode plate and the second electrode plate are wound at intervals, the first electrode plate is the outermost electrode plate of the battery cell and further includes a first end which is a winding ending end, a surface of the first current collector at the first end facing toward the center of the battery cell is provided with the first active layer. The insulating adhesive includes a first sub-insulating adhesive disposed on a surface of the first current collector on the outermost side of the battery cell facing away from the first active layer.

IPC 8 full level

H01M 10/0587 (2010.01); **H01M 4/62** (2006.01); **H01M 4/66** (2006.01); **H01M 10/04** (2006.01); **H01M 10/0525** (2010.01); **H01M 10/42** (2006.01)

CPC (source: CN EP KR US)

H01M 4/13 (2013.01 - CN); **H01M 4/62** (2013.01 - EP US); **H01M 4/667** (2013.01 - EP); **H01M 10/0431** (2013.01 - EP KR); **H01M 10/0525** (2013.01 - CN EP); **H01M 10/0587** (2013.01 - CN EP US); **H01M 10/4235** (2013.01 - EP KR); **H01M 2200/10** (2013.01 - EP); **H01M 2220/30** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [X] CN 209045679 U 20190628 - NINGDE AMPEREX TECHNOLOGY LTD
- [A] JP 2003086233 A 20030320 - MITSUBISHI ELECTRIC CORP
- [A] CN 109755461 A 20190514 - NINGDE AMPEREX TECHNOLOGY LTD
- [A] WO 2019189866 A1 20191003 - MITSUI CHEMICALS INC [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3940856 A1 20220119; **EP 3940856 A4 20220119**; CN 112930616 A 20210608; JP 2022537472 A 20220826; JP 7273952 B2 20230515; KR 102594416 B1 20231027; KR 20210041626 A 20210415; US 2022123313 A1 20220421; WO 2021232312 A1 20211125

DOCDB simple family (application)

EP 20866914 A 20200520; CN 2020091384 W 20200520; CN 202080005780 A 20200520; JP 2021517415 A 20200520; KR 20217009052 A 20200520; US 202017281383 A 20200520